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Group Art Unit: 2611

Examiner:

AHN, Sam K.

UNITED STATES PATENT AND TRADEMARK OFFICE

Phone: (571) 273-3044

Pages: Cover + 2 + 1 = 4

Date: January 29, 2007

From: Georgann S. Grunebach

Reg. No. 33,179

Fax: (310) 964-0941

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22313-1450, on January 29, 2007)

Georgadin S. Grunebach, Reg. No. 33,179 (Name of Applicant, Assignee or Registered Representative) January 29, 2007

Date

(Date of Facsimile Transmission)

Re:

Serial No.

10/519,322

Filed: December 23, 2004

Inventors:

Ernest Chen et al.

For:

IMPROVING HIERARCHICAL 8PSK PERFORMANCE

Attorney Docket No.:

PD-202109

Transmitted herewith:

INFORMATION DISCLOSURE STATEMENT (2 pages)

FORM PTO 1449 (1 page)

The DirecTV Group, Inc., CA/LA1/A109, P. O. Box 956, El Segundo CA 90245

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Patent

PD-202109 Customer No. 020991

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Ernest C. Chen et al. :

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Serial No.: 10/519.322 Filing Date: 12-23-2004

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Group Art Unit: 2611

Examiner:

ANH, Sam K.

Date: January 29, 2007

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

The references cited on the enclosed form PTO/SB/08A may be relevant or material to the examination of the above-identified patent application and are, therefore, submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. It is respectfully requested that the references be considered and made of record in the application identified above.

This statement should be considered because it is being submitted before the mailing of a first Office action on the merits under 37 C.F.R. §1.97(b)(3). Accordingly, it is submitted that no fee is due in this matter.

However, if it is determined that any appropriate fee is due, the Commissioner is hereby authorized to charge Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California.

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, that additional information material to the examination of this application does not exist, or that this citation constitutes prior art.

Respectfully submitted,

By

Georgann S. Grunebach, Reg. No. 33,179

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P. O. Box 956
El Segundo, CA 90245

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January 29, 2007

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| Substitute for form PTO/SB/08A | Complete if Known | | |
|--------------------------------|------------------------|--|--|
| INFORMATION DISCLOSURE | Application Number | 10/519,322 December 23, 2004 Ernest Chen | |
| STATEMENT BY APPLICANT | Filing Date | | |
| STATEMENT BY AFFEIGANT | First Named Inventor | | |
| | Art Unit | 2611 | |
| | Examiner Name | AHN, Sam K. | |
| Date: January 29, 2007 | | | |
| Sheet 1 of 1 | Attorney Docket Number | PD-202109 | |

| Examiner | Cite | Document Number | Publication Date | Name of Patentee or | Pages, Columns, Lines, |
|-----------|------|------------------|------------------|-----------------------------|--|
| Initials* | No. | Number-Kind Code | MM-DD-YYYY | Applicant of Cited Document | Where Relevant Passages or Relevant Figures Appear |
| | | US-2006/0013333 | 01-2006 | Chen, Ernest C. | |
| | | US-6,369,648 | 04-2002 | Kirkman, George F. | |
| | | US-6,477,398 | 11-2002 | Mills, Randell L. | |
| | | US-3,076,180 | 01-1963 | Havens et al. | |
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| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-------------|---|-----------------------------------|--|---|---|
| Examiner Initials* | Cite No. | Foreign Patent Document Country Code-Number-Kind Code | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T |
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